

**AMENDMENTS TO THE CLAIMS**

Please amend the claims as listed below, canceling claims 1-15 and adding new claims 16-67.

Claims 1-15 (canceled).

Claim 16 (new): A heat-insulating paper container fabricated from a body member of paper having an inside surface laminate of a first polyethylene admixture effective to prevent penetration of liquid into the paper during use and an outside surface laminate of foamed polyethylene, the body member bonded to a bottom panel member having an upper surface and a bottom surface, wherein the first polyethylene admixture is effective to form a liquid tight seal between the body member and the bottom panel member.

Claim 17 (new): The heat-insulating paper container of claim 16, wherein the first polyethylene admixture is effective to form a liquid tight seal between the body member and the bottom panel member at a temperature of from about 350 °C to about 450 °C, at a pressure of about 3000 kilopascals, and at a contact time of no more than about 0.3 seconds.

Claim 18 (new): The heat-insulating paper container of claim 16, wherein the first polyethylene admixture comprises a material that will not foam under conditions of about 240 °F to about 270 °F and a residence time of about 1.5 to about 2.5 minutes.

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Claim 19 (new): The heat-insulating paper container of claim 17, wherein the first polyethylene admixture comprises a material that will not foam under conditions of about 240 °F to about 270 °F and a residence time of about 1.5 to about 2.5 minutes.

Claim 20 (new): The heat-insulating paper container of claim 16, wherein the container is a cup.

Claim 21 (new): The heat-insulating paper container of claim 18, wherein the container is a cup.

Claim 22 (new): The heat-insulating paper container of claim 19, wherein the container is a cup.

Claim 23 (new): The heat-insulating paper container of claim 16, wherein the outside surface laminate is a foamed low density polyethylene, wherein the bottom panel member is coated on at least its upper surface with a laminate of a low density polyethylene or a second polyethylene admixture, and wherein the body member and the bottom panel member are oriented and joined to form a heat seal at an interface between a portion of the polyethylene admixture coated on the inside surface of the body member and a portion of the laminate coated on the upper surface of the bottom panel member.

Claim 24 (new): The heat-insulating paper container of claim 16, wherein the first polyethylene admixture comprises a polyethylene blend containing low density polyethylene in an amount effective to form a tight liquid seal between the body member and the bottom panel member.

Claim 25 (new): The heat-insulating paper container of claim 23, wherein at least one of the first and second polyethylene admixtures comprises a polyethylene blend containing low density polyethylene in an amount effective to form a tight liquid seal between the body member and the bottom panel member.

Claim 26 (new): The heat-insulating paper container of claim 24, wherein the polyethylene blend additionally comprises high density polyethylene in an amount such that the polyethylene admixture will not foam under conditions of about 240 °F to about 270 °F and a residence time of about 1.5 to about 2.5 minutes.

Claim 27 (new): The heat-insulating paper container of claim 26, wherein the polyethylene blend comprises at least about 10 to about 98% low density polyethylene and about 2 to about 90% high density polyethylene.

Claim 28 (new): The heat-insulating paper container of claim 27, wherein the polyethylene blend comprises at least about 90% low density polyethylene and at least about 10% high density polyethylene.

Claim 29 (new): The heat-insulating paper container of claim 26, wherein the bottom panel member is coated on at least its upper surface with an unfoamed low density polyethylene or an unfoamed modified low density polyethylene.

Claim 30 (new): The heat-insulating paper container of claim 29, wherein the bottom panel member is coated on at least its upper surface with an unfoamed low density polyethylene.

Claim 31 (new): The heat-insulating paper container of claim 25, wherein the polyethylene blend additionally contains high density polyethylene in an amount such that the polyethylene admixture will not foam under conditions of about 240 °F to about 270 °F and a residence time of about 1.5 to about 2.5 minutes.

Claim 32 (new): The heat-insulating paper container of claim 31, wherein the polyethylene blend comprises at least about 10 to about 98% low density polyethylene and about 2 to about 90% high density polyethylene.

Claim 33 (new): The heat-insulating paper container of claim 32, wherein the polyethylene blend comprises at least about 90% low density polyethylene and at least about 10% high density polyethylene.

Claim 34 (new): The heat-insulating paper container of claim 31, wherein the bottom panel member is coated on at least its upper surface with an unfoamed low density polyethylene or an unfoamed modified low density polyethylene.

Claim 35 (new): The heat-insulating paper container of claim 34, wherein the bottom panel member is coated on at least its upper surface with an unfoamed low density polyethylene.

Claim 36 (new): The heat-insulating paper container of claim 16, wherein the first polyethylene admixture comprises a polyethylene blend containing polyethylene materials selected to and blended in an amount effective to provide an improved seal between the body member and the bottom panel member.

Claim 37 (new): The heat-insulating paper container of claim 23, wherein at least one of the first and second polyethylene admixtures comprises a polyethylene blend containing polyethylene materials selected to and blended in an amount effective to provide an improved seal between the body member and the bottom panel member.

Claim 38 (new): The heat-insulating paper container of claim 36, wherein the polyethylene blend will not foam under conditions about 240 °F to about 270 °F and a residence time of about 1.5 to about 2.5 minutes.

Claim 39 (new): The heat-insulating paper container of claim 38, wherein the container is a cup.

Claim 40 (new): The heat-insulating paper container of claim 37, wherein the polyethylene blend will not foam under conditions about 240 °F to about 270 °F and a residence time of about 1.5 to about 2.5 minutes.

Claim 41 (new): The heat-insulating paper container of claim 40, wherein the container is a cup.

Claim 42 (new): A method for fabricating a heat-insulating paper container from a paper-based body member with an inside surface and an outside surface, and a paper-based bottom panel member with an upper surface and a bottom surface, said method comprising:

applying to the inside surface of the body member a first polyethylene admixture effective to prevent penetration of liquid into the paper during use, wherein the first

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polyethylene admixture comprises a material effective to form a liquid tight seal between the body member and the bottom panel member;

applying to the outside surface of the body member a laminate that is foamable under fabrication conditions; and

fabricating the container so that the body member is bonded to the bottom panel member.

Claim 43 (new): The method of claim 42, wherein the first polyethylene admixture is effective to form a liquid tight seal between the body member and the bottom panel member at a temperature of from about 350 °C to about 450 °C, at a pressure of about 3000 kilopascals, and at a contact time of no more than about 0.3 seconds.

Claim 44 (new): The method of claim 42, wherein the first polyethylene admixture comprises a material that will not foam under conditions of about 240 °F to about 270 °F and a residence time of about 1.5 to about 2.5 minutes.

Claim 45 (new): The method of claim 43, wherein the first polyethylene admixture comprises a material that will not foam under conditions of about 240 °F to about 270 °F and a residence time of about 1.5 to about 2.5 minutes.

Claim 46 (new): The method of claim 42, further comprising fabricating a cup.

Claim 47 (new): The method of claim 44, further comprising fabricating a cup.

Claim 48 (new): The method of claim 45, further comprising fabricating a cup.

Claim 49 (new): The method of claim 42, further comprising:  
applying to the outside surface of the body member a laminate of low density polyethylene that is foamable under fabrication conditions, wherein the first polyethylene admixture is not foamable under fabrication conditions;

applying to at least the upper surface of the bottom panel member a laminate of a low density polyethylene or a second polyethylene admixture; and

orienting and joining the body member and the bottom panel member to form a heat seal at an interface between a portion of the first polyethylene admixture coated on the inside surface of the body member and a portion of the laminate coated on the upper surface of the bottom panel member.

Claim 50 (new): The method of claim 42, wherein the first polyethylene admixture comprises a polyethylene blend containing low density polyethylene in an amount effective to form a tight liquid seal between the body member and the bottom panel member.

Claim 51 (new): The method of claim 49, wherein at least one of the first and second polyethylene admixtures comprises a polyethylene blend containing low density polyethylene in an amount effective to form a tight liquid seal between the body member and the bottom panel member.

Claim 52 (new): The method of claim 50, wherein the polyethylene blend additionally contains high density polyethylene in an amount such that the polyethylene

admixture will not foam under conditions of about 240 °F to about 270 °F and a residence time of about 1.5 to about 2.5 minutes.

Claim 53 (new): The method of claim 52, wherein the polyethylene blend comprises at least about 10 to about 98% low density polyethylene and about 2 to about 90% high density polyethylene.

Claim 54 (new): The method of claim 53, wherein the polyethylene blend comprises at least about 90% low density polyethylene and at least about 10% high density polyethylene.

Claim 55 (new): The method of claim 52, wherein the bottom panel member is coated on at least its upper surface with an unfoamed low density polyethylene or an unfoamed modified low density polyethylene.

Claim 56 (new): The method of claim 55, wherein the bottom panel member is coated on at least its upper surface with an unfoamed low density polyethylene.

Claim 57 (new): The method of claim 51, wherein the polyethylene blend additionally contains high density polyethylene in an amount such that the polyethylene admixture will not foam under conditions of about 240 °F to about 270 °F and a residence time of about 1.5 to about 2.5 minutes.

Claim 58 (new): The method of claim 57, wherein the polyethylene blend comprises at least about 10 to about 98% low density polyethylene and about 2 to about 90% high density polyethylene.



Claim 59 (new): The method of claim 58, wherein the polyethylene blend comprises at least about 90% low density polyethylene and at least about 10% high density polyethylene.

Claim 60 (new): The method of claim 57, wherein the bottom panel member is coated on at least its upper surface with an unfoamed low density polyethylene or an unfoamed modified low density polyethylene.

Claim 61 (new): The method of claim 60, wherein the bottom panel member is coated on at least its upper surface with an unfoamed low density polyethylene.

Claim 62 (new): The method of claim 42, wherein the first polyethylene admixture comprises a polyethylene blend containing polyethylene materials selected to and blended in an amount effective to provide an improved seal between the body member and the bottom panel member.

Claim 63 (new): The method of claim 49, wherein the at least one of the first and second polyethylene admixtures comprises a polyethylene blend containing polyethylene materials selected to and blended in an amount effective to provide an improved seal between the body member and the bottom panel member.

Claim 64 (new): The method of claims 62, wherein the polyethylene blend will not foam under conditions about 240 °F to about 270 °F and a residence time of about 1.5 to about 2.5 minutes.

Claim 65 (new): The method of claim 64, further comprising fabricating a cup.

Claim 66 (new): The method of claim 63, wherein the polyethylene blend will not foam under conditions about 240 °F to about 270 °F and a residence time of about 1.5 to about 2.5 minutes.

Claim 67 (new): The method of claim 66, further comprising fabricating a cup.

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